

DOCKET NO.: MSFT-1166 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

In Re Application of:

Serial No.: 09/247,816

Confirmation No.: 8083

DEC 1 2 2002

ANGUS DORBIE

Group Art Unit: 2671

Technology Center 2600

Filing Date: 2/9/99

Examiner: HUEDUNG X CAO

For: METHOD AND APPARATUS FOR EARLY CULLING OF OCCLUDED

OBJECTS

Box DSD Commissioner for Patents and Trademarks Washington, DC 20231

POWER OF ATTORNEY WITH REVOCATION

Revoking any and all powers of attorney heretofore given in the matter of the aboveentitled application, the undersigned, assignee of the entire interest in the above-identified application, hereby appoints Steven J. Rocci, Registration No. 30,489, of the firm Woodcock Washburn LLP, One Liberty Place – 46th Floor, Philadelphia, Pennsylvania, as attorney, with full power of substitution and revocation, to prosecute this application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith.

DOCKET NO.: MSFT-1166

- 2 -

PATENT

In addition, the assignee also appoints the following attorneys listed below of MICROSOFT CORPORATION, One Microsoft Way, Redmond, Washington 98052 with full power of substitution and revocation, to prosecute this application, to make alterations and amendments therein, to receive the patent and to transact all business in the Patent and Trademark Office connected therewith.

Daniel D. Crouse

Registration No. 32,022

Send all future correspondence and address all telephone calls to:

Steven J. Rocci WOODCOCK WASHBURN LLP One Liberty Place - 46th Floor Philadelphia, PA 19103 Telephone: (215)568-3100

STATEMENT UNDER 37 C.F.R. 3.73(b)

MICROSOFT CORPORATION, a corporation of the State of Washington, states that it is the assignee of the entire right, title, and interest in the patent application/patent identified above by virtue of:

	A.	☐ An assignment from the inventor(s) of the patent application/patent
identified abov	ve.	
		☐ 1. The assignment was recorded in the Patent and Trademark
	Office	t Reel Frame
		☐ 2. The assignment has not yet been recorded. A copy of the
	assignr	ent is attached.
OR		
	B.	☐ A chain of title from the inventor(s), of the patent application/patent

identified above, to the current assignee as shown below:

DOCKET NO.: MSFT-1166 - 3 - PATENT

From the inventors to: <u>Silicon Graphics, Inc.</u> The document was recorded in the U.S. Patent and Trademark Office on February 9, 1999, at Reel 9784, Frames 0600. A copy thereof is attached.

From: Silicon Graphics, Incorporated To: Microsoft Corporation, dated September 28, 2001. This assignment has not yet been recorded. A copy thereof is attached.

☐ Copies of assignments or other documents in the chain of title are attached.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignees identified above. The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee, MICROSOFT CORPORATION.

Respectfully subpritted,

Date: 12/2/02

Name: DANIEL D. CROUSE

Title: Assistant Secretary

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UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

MAY 19, 1999

PTAS

GRAHAM & JAMES LLP JOSEPH K. HOLLINGER 600 HANSEN WAY PALO ALTO, CA 94304-1043



UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/09/1999

REEL/FRAME: 9784/0600 NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

DORBIE, ANGUS

DOC DATE: 02/09/1999

ASSIGNEE:

SILICON GRAPHICS, INCORPORATED 2011 N. SHORELINE BOULEVARD MOUNTAIN VIEW, CALIFORNIA 94043-

1389

SERIAL NUMBER: 09247816

PATENT NUMBER:

FILING DATE: 02/09/1999

ISSUE DATE:

MARY BENTON, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

MAY 27 1999

VIM CALENDARED

DATES ENTERED: MO

ATTORNEY

GRAHAM & JAMES (PA) IP DEPT.

	ket No.: 20545.00064(15-4-767.00)
FORM PTO-1595 (Modified) (R~v. 6-93) OMB No. 0661-0011 (exp.4/94)	
Copyright 1996-97 LegalStar P08A/REV02	
Tab settings → → ▼ To the Honorable Commissioner c 10097604	3 J the attached original documents or copy thereof.
	2. Name and address of receiving party(ies):
1. Name of conveying party(ies): Angus Dorbie	2. Name and address of receiving party(les).
2-9-99	Name: Silicon Graphics, Incorporated
	Address: 2011 N. Shoreline Boulevard
Additional names(s) of conveying party(ies)	
3. Nature of conveyance:	
☐ Security Agreement ☐ Change of Name	City: Mountain View State/Prov.: CA
Other	Country: <u>US</u> ZIP: <u>94043-1389</u>
Execution Date: February 9, 1999	Additional name(s) & address(es) ☐ Yes ☑ No
Additional numbers	☐ Yes ☒ No
Name and address of party to whom correspondence concerning document should be mailed: -	6. Total number of applications and patents involved:
Name: Joseph K. Hollinger	7. Total fee (37 CFR 3.41):\$ 40.00
Registration No. 40,649	Enclosed - Any excess or insufficiency should be
Address: Graham & James LLP	credited or debited to deposit account
	☐ Authorized to be charged to deposit account 8
600 Hansen Way	8
	8. Deposit account number:
City: Palo Alto State/Prov.: CA	· · · · · · · · · · · · · · · · · · ·
Country: US ZIP: 94304-1043	05-0150
DO NO	USE THIS SPACE
9. Statement and signature.	2
To the best of my knowledge and belief, the foregoing inform of the original document.	nation is true and correct and any attached copy is a true copy
To the best of my knowledge and belief, the foregoing inform of the original document. Joseph K. Hollinger, Reg. No. 40,649	mation is true and correct and any attached copy is a true copy 2/9/99 Signature Date

EAFRESS PRITH MODEL NO. EMOSCOPPINOUS

Attorney Docket No. 20545.00064(15-4-767.00)

		(1) Angus Dorbie	(5)
(1-8)	Insert Name(s) of Inventor(s)	(2)	(6)
		(3)	
		(4)	(8)
For goo	od and valuable consideration re do(es) assign, transfer and set o	eceipt of which is hereby ackrover to:	nowledged, the undersigned agree(s) to assign, and
(9)	Insert name of Assignee	(9) Silicon Graphics, Incorpora	ated
(10)	Insert state of incorporation of Assignee	(10) <u>Delaware</u>	
(1 <i>1</i>)	Insert address of Assignee	(11) of <u>2011 N. Shoreline Bor</u> (hereinafter designated as t interest in the invention known	ulevard, Mountain View, CA 94043-1389 he Assignee) the entire worldwide right, title and n as
(12)	Insert Identification of Invention, such as Title, Case Number or Foreign Application Number	(Case No. 20545.00064)(15-	or Early Culling Of Occluded Objects 4-767.00) (Serial No. UNASSIGNED) for which the cuted an application for patent in United States o
(13)	Insert Date of Signing of Application	(13) onFebruary 9, 19	99
be dec possibl	lared concerning this application te in obtaining evidence and goin 3) The undersigned agre	e(s) to execute all papers nece or continuation or division the g forward with such interference e(s) to execute all papers a	essary in connection with any interference which may reof and to cooperate with the Assignee in every way be. Indicate the convention of
valid U	The undersigned agre- nited States patent to the Assign		acts which may be necessary to obtain a grant of a
constitudivision	5) The undersigned her uted authorities of foreign coun or divisions or continuing or ree of the entire right, title and in therein assigned, and that he	eby authorize(s) and requestries to issue any and all Le eissue applications thereof to terest, and hereby covenants	st(s) the Commissioner of Patents and the duly tters Patents resulting from said application or any the said Assignee, its successors and assigns, as that he has (they have) full right to convey the entire and will not execute, any agreement in conflic
	Merkadeau, Reg. No. 33,26 34,549;David J. Meyer, Re Gyarfas, Reg. No. 40,583; No. 36,568 Joseph K. Holll Harmohinder S. Bedi Reg.	 28,600;David L. Henty, Reg. No. 3 2;David B. Abel Reg. No. 32,394;His No. 33,425;Vincent J. Belusko, Robenis R. Gallagher, Reg. No. 42,50 noer Reg. No. 40,649; Marc A. Sock 	1,323;William J. Robinson, Reg. No. 29,430;Stuart L. sako Muramatsu, Reg. No. 34,955;Brian M. Berliner, Reg. No. 19. No. 30,820; Minda Schechter, Reg. No. 38,296;Victor De 3;Wayne Smith, Reg. No. 42,160; Stefan J. Kirchanski, Reg. ol Reg. No. 40,823;Linda Beach Reg. No. 36,446; o. P44,310;Leah Sherry Reg. No. P43,918;Christopher Byrne, Reg. No. 40,530.
with th	e rules of the United States Pate	nt and Trademark Office for re-	h may be necessary or desirable in order to comply cordation of this document.
Date_	9th Feb 99	Name of Inv	entor(s) × Agr L L
Date_		Name of Inv	rentor(s)
Date_			rentor(s)
		Name of Inv	rentor(s)
Date		Name of Inv	rentor(s)

EXHIBIT A

ASSIGNMENT

WHEREAS, SILICON GRAPHICS, INC., a Delaware Corporation, (hereinafter referred to as "Assignor") owns all right, title and interest in and to the inventions, patents and patent applications (hereinafter referred to as the "Intellectual Property") identified in Schedule A attached hereto; and

WHEREAS, MICROSOFT CORPORATION, a Washington Corporation, (hereinafter referred to as "Assignee"), is desirous of acquiring the entire domestic and foreign right, title, and interest in and under the Intellectual Property.

Now, Therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor assigns and transfers to the Assignee and the Assignee's legal representatives, successors and assigns, pursuant to the terms of a concurrently executed Confidential Patent Assignment Agreement, its full and exclusive rights in and to the Intellectual Property in the U.S. and every foreign country and its entire right, title, and interest in and to the Intellectual Property and related applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications, and utility model applications) that may be filed in the United States and every foreign country on the Intellectual Property, and extensions or derivations thereof, both foreign and domestic, that may issue thereon, and we do hereby authorize and request the Commissioner of Patents to issue U.S. patents to the above-mentioned Assignee agreeably with the terms of this assignment document.

ASSIGNOR HEREBY AUTHORIZES the Assignee to insert in Schedule A to this assignment document the filing date and application number of any application if the date and number are unavailable at the time this document is executed.

UPON SAID CONSIDERATION, Assignor conveys to the Assignee the right to make application in its own behalf for protection of the Intellectual Property in the U.S. and countries foreign to the U.S. and to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of any earlier U.S. application (or any other application on the invention) to gain priority with respect to other applications.

IN WITNESS WHEREOF, Assignor has caused one of its officers to hereunder set his hand on the date shown below.

Date 9 28 6	Sandra Esclur
	SUNTON VICE President
STATE OF WELLINGTON COUNTY OF KING On this 20th day of Se Public in and for said county, appeare same person whose name is subs acknowledged that he/she signed and for the uses and purposes therein set for	, who is personally known to me to be the scribed to the foregoing assignment document, and delivered the document as his/her free and voluntary act
(SEAL) SEAL OF PUBLIC OF PUBLI	Notary Public My Commission Expires: 10-9-0

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	Country	Patent No.	1106	Issue Date
	US	5 506.624	Rotating Sample of Video Images	4/9/1996
al Media		5,745,713	Movie-Based Facility for Launching Application Programs or Services	4/28/1998
	US	5 774 886	System and Method for Displaying Uniform Network Resource Locators Embedded in Time-Based Medium	6/30/1998
	US	5,987,509	System and Method for Displaying an Active URL During Playback of a Media File or Media Broadcast	11/16/1999
	US	5,808,662	Synchronized, Interactive Playback of Digital Movies Across 8 Network	9/14/1998
	us	5,943,347	Apparatus and Method for Error Concealment in an Audio Stream	8/24/1999
	US	6,005,600	High Performance Player for Distributed, Time-Based Media	12/21/1999
	US	6,147,695	System and Method for Combining Multiple Video Streams	11/14/2000
	us	6,075,908	System and Method for the Scaling of Image Streams that Use Motion Vectors	6/13/2000
	US	DOGG EGE	Video Camera Used with Personal Computer	12/28/1995
	US	D385,585 5,604,866	Flow Control System Having a Counter in Transmitter for Decrementing and Incrementing Based Upon Transmitting and Received Message Size Respectively for Indicating Free Space in Receiver	2/18/1997
	US		Digital Filtering for Lenticular Printing	5/10/1994
	US	5,311,329		8/1/1995
	US	5,438,429 6,070,002	Olgital Filtering for Lenticular Printing System Software for Use in a Graphics Computer System Having a Shared System Memory	3/30/2000
	US	5,649,186	System and Method for a Computer-Based Dynamic Information Clipping Service	
ternet	US	5,737,560	Graphical Method and System for Accessing Information on a Communications Natwork	4/7/1998
	US	5,877,767	Graphical Method and System for Accessing Information on a Communications Network	3/2/1999
	US	5,742,768	System and Method for Providing and Displaying a Web Page Having an Embedded Menu	3/30/1999
	us	5,890,170	Method and Apparatus for Publishing Documents in a Hypertextual Network Environment	
		6,026,433	Method of Creating and Editing a Web Site in a Client-Serve Environment Using Customizable Web Site Templates	2,0,200
	US	6,072,491	Method and Computer Program Product for Accessing a Web Site	6/6/2000
	US	6,096,096	Web-Site Delivery	8/1/2000
	US	6,098,092	Server to Dynamically Generate Graphics for the World Wide Web	8/1/2000
	US	6,189,029	Web Survey Tool Builder and Result Compiler	2/13/200
	US	6,081,829	General Purpose Web Annotations Without Modifying	6/27/200
		6,199,098	Method and Apparatus for Providing an Expandable, Hierarchical Index in a Hypertextual, Client-Server Environment	3/6/2001
	US	6,012,055	Mechanism for Integrated Information Search and Retrieva from Diverse Sources Using Multiple Navigation Methods	1/4/200
	US	4,772,681	Pixel Mapping Apparatus for Color Graphics Display	9/20/198
Graphics Render		5,038,297	<u> </u>	8/6/199
	us	5,197,126	Clock Switching Circuit for Asynchronous Clocks of Graph Generation Apparatus	cs 3/23/19

	Country	Patent No.	Time	9/13/1988
	US	4 771 279	Dual Clock Shift Register	
		4,951,232	Method for Updating Pipelined Strigle 1 on 2-band by	8/21/1990
	US	4,789,927	Interleaved Pipeline Parallel Processing Architecture	12/6/1988
	US	5,113,490	Method for Forming a Computer Model from an Intersection of a Cutting Surface with a Bounded Volume	5/12/1992
	US	T 100 F40	Method and Apparatus for Painting on a Computer	1/26/1993
	US	5,182,548	Graphics Processor with Staggared Memory Timing	2/5/1991
	US	4,991,110	Graphics Processor with Staggered Memory Timing	7/7/1992
	US	5,129,059	Method and Apparatus for Producing a Visually Improved	3/9/1993
	us	5,193,145	Image in a Computer System Integrated Apparatus for Displaying a Plurality of Modes of	12/8/1998
		5,847,700	Color Information on a Computer Output Display	
	us	6 974 648	Video Timing and Display ID Generator	12/6/1994
	US	5,371,518 5,621,432	Method and Apparatus for Generating Display Identification Information	4/15/1997
	US	5,051,737	Efficient Graphics Process for Clipping Polygons	9/24/1991
	US	5,266,941	Apparatus and Method for Controlling Storage of Display	11/30/1993
	US	5,394,170	Apparatus and Method for Controlling Storage of Display	2/28/1995
	US	5,768,552	Graphical Representation of Computer Network Topology and Activity	6/16/1998
	US	5,585,824	Graphics Memory Apparatus and Method	12/17/1996
	US	5,818,433	Graphics Memory Apparatus and Method	10/6/1998
	US	5,307,450	7-Subdivision for Improved Texture Mapping	4/26/1994
	US	5,230,039	Texture Range Controls for Improved Texture Mapping	7/20/1993
	US	5,343,558	Method for Scan Converting Shaded Triangular Polygons	8/30/1994
	US	5,347,618	Method for Display Rendering by Determining the Coverage of Pixels in Polygons	9/13/1994
	US	5,345,252	High Speed Cursor Generation Apparatus	9/6/1994
	US	5,265,199	Method and Apparatus for Accomplishing Z-Buffering by	11/23/1993
	US	5,548,709	An Apparatus and Method for Integrating Texture Memory	8/20/1996
	US	5,706,481	Apparatus and Method for Integrating Texture Memory and	1/6/1998
	us	5,684,939	Antiellased Imaging with Improved Pixel Supersampling	11/4/1997
	US	6,072,500	Antipliased Imaging with Improved Pixel Supersampling	6/6/2000
	us	5,581,680	Method and Apparatus for Antialiasing Raster Scanned	12/3/1996
		5,636,338	Method for Designing Curved Shapes for Use by a Comput	1
	US	5,515,484		5/7/1996
	us	5,369,739	II. a Carabiae Dienisy System	6/18/199
	us	5,528,737	Processor-Based Method for Rasterizing Polygons at an	9/8/1998
		5,805,782	A Method and Apparatus for Projective Texture Mapping Rendered from Arbitrarily Positioned and Oriented Light	
	us	5,682,55	Source Apparatus and Method for Handling Data Transfer Betwee a General Purpose Computer and a Cooperating Process	or 10/28/19
1	us			

	Country	Patent No.	1100	esue Date
		5,457,779	System for Accessing Graphic Data in a SIMD Processing Environment	10/10/1995
	US	5.671.401	Apparatus for Efficiently Accessing Graphic Data for Rendering on a Display	9/23/1997
	US	5,742,749	A Method and Apparatus for Shadow Generation Through	4/21/1998
	US		Depth Mapping	2/8/1996
		5,490,240	A System and Method of Generating Interactive Computer Graphic Images Incorporating Three Dimensional Textures	20,1000
	US	5,438,654	System and Method for Sharpening Texture Imagery in	8/1/1995
	us	3,100,100	Computer Generated Interactive Graphics	10/3/1995
	US	5,455,827	Programmable Video Output Format Generator	11/28/1995
	116	5,471,572	A System and Method for Adding Detail to Textures imagery in Computer Generated Interactive Graphics	
	US	5,704,024	A Method & Apparatus for Generating Reflection Vectors Which can be Unnormalized and For Using These Reflection Vectors to Index Locations on an Environment Map	12/30/1997
	US	5,649,082	An Efficient Algorithm for Computer Texture Coordinates for	7/15/1997
	us	5,528,738	Lines & Polygons Method and Apparatus for Antiallasing Raster Scanned,	6/18/1996
	US		Polygonal Shaped Images Method for Sampling a Uniform Spatially-Distributed	8/8/1997
	US	5,619,597	Sequence of Pixels in a Block	1/20/1998
	us	5,710,876	A Computer Graphics System for Rendering Images Using Full Spectral Illumination Data	
	us	5,835,133	Optical System for Single Camera	11/10/1998
	US	5,608,461	Programmable Video Frame Detector	3/4/1997
	US	5,703,810	Improved DRAM for Texture Mapping	12/30/1997
		5,943,058	Texture Mapping Circuit for Performing Data Interpolations	8/24/1989
	US	5,982,939	System and Method for Antialiasing of Texture Edges	11/9/1999
	US	5,844,567	Computer Graphics System and Mehod for Texture Mapping Using Triangular Interpolation	12/1/1998
	US	5,819,017	Apparatus and Method for Selectively Storing Depth	10/6/1998
	US	5,877,771	Information of a 3-D Image A Method and Apparatus for Supersampling Based on the	3/2/1999
	us	5,760,783	Local Rate of Change in Texture A Method and Apparatus for Providing Texture Using a	6/2/1998
	us	3,700,700	Selected Portion of a Texture MIP-MAP	10/8/1998
	US	5,818,613	System and Method for Color Space Conversion	4/7/1998
		5,736,988	Appartus and Method for Accelrated Tiled Data Retneval	
	US	5,657,479	Hierarchical Display List Processing In Graphics Data Retrieval System	8/12/1997
	us	6 000 000	Computer Graphics Silhouette Load Management	8/10/1999
	us	5,936,626 5,845.874	System and Method for Creating Visual Images of Archan	12/8/1998
	US	6,226,003	Wake Vortices Method for Rendering Silhouette and True Edges of 3-D Lir	e 5/1/2001
	us	6,131,189	Drawings with Occlusion Drawings with Occlusion Drawings with Occlusion Drawings with Occlusion	10/10/200
		0,131,189	Indirect Memory Operations in Static Single Assignment	
	us	5,946,113	System and Method for Color Space Conversion Using an	
	us	6,147,772	System and Method for Color Space Conversion Using an	11/14/20
	us	5,831,620	Extended Color Space Syten and Computer-Based Method for Creating Real-Tire	11/3/199
1	us	1 5,55.,52	Mirror Reflections	

US US US US US US US US	6,249,289	Algorithm Multi-Purpose High Resolution Distortion Correction Method, System and Computer Program Product for Bump Mapping in Tangent Space Method, System and Computer Program Product for Shading Method, System and Computer Program Product for Shading Unified Memory Computer Architecture with Dynamic Greenics Memory Allocation	9/29/1998 6/19/2001 9/7/1999 3/9/1999 12/19/2000 8/15/2000
US US US US US US	5,249,289 5,949,424 5,880,736 6,163,319 6,104,417	Algorithm Multi-Purpose High Resolution Distortion Correction Method, System and Computer Program Product for Bump Mapping in Tangent Space Method, System and Computer Program Product for Shading Method. System and Computer Program Product for Shading Unified Memory Computer Architecture with Dynamic Graphics Memory Allocation	9/7/1999 3/9/1999 12/19/2000
US US US US US US	5,949,424 5,880,738 6,163,319 6,104,417	Method, System and Computer Program Product for Bump Mapping in Tangent Space Method, System and Computer Program Product for Shading Method, System and Computer Program Product for Shading Unified Memory Computer Architecture with Dynamic Graphics Memory Allocation	9/7/1999 3/9/1999 12/19/2000
US US US US	5,949,424 5,880,738 6,163,319 6,104,417	Mapping in Tangent Space Method, System and Computer Program Product for Shading Method, System and Computer Program Product for Shading Unified Memory Computer Architecture with Dynamic Greenics Memory Allocation	3/9/1999
US US US	5,880,738 6,163,319 6,104,417	Method, System and Computer Program Product for Shading Method, System and Computer Program Product for Shading Unified Memory Computer Architecture with Dynamic Graphics Memory Allocation	12/19/2000
us us	6.104,417	Method, System and Computer Program Product for Shading Unified Memory Computer Architecture with Dynamic Graphics Memory Allocation	
us	6.104,417	Unified Memory Computer Architecture with Dynamic Graphics Memory Allocation	8/15/2000
		Graphics Memory Allocation	1
116	6,154,794	Upstream Situated Apparatus and Method within a	11/28/2000
116		Computer System for Controlling Data Flow to a	
 09	6,078,331	A Method and System for Efficiently Drawing Subdivision	6/20/2000
us		Surfaces for 3D Graphics Real-Time Lighting Algorithm Using 3D Texture Mapping	6/20/2000
us	6,078,332 6,175,367	A Method and System for Real Time Illumination of	1/16/2001
US	6,002,406	Computer Generated Images Server and Method for Storing and Accessing Data	12/14/1999
us		Penresentative of an Object in Vanous Levels of Detail	11/28/2000
	6,154,215	Method and Apparatus for Maintaining Multiple Representations of a Same Scene in Computer Generated	
us		Graphics Blended Texture Illumination Mapping	5/2/2000
US	6,057,850	Latching Assembly for a Computer	6/1/1999
ŲS	5,907,962	A Platform Independent Application Program Interface for	4/10/2001
US	6,215,495	Interactive 3D Scene Management	8/22/2000
	6,108,007	Method, Sytem and Computer Program Product for Increasing Interpolation Precision Using Multi-Channel Texture Mapping	
 US	6,104,415	Method for Accelerating Minified Textured Cache Access	8/15/2000
 us	6,232,981	Method for Improving Texture Locality for Pixel Quads by	5/15/2001
us	5,232,979	Diagonal Level of Detail Calculation Method, System and Computer Program Product for Fast	5/15/2001
116		Computation Using Parallel Multi-Channel Resampling and Blending	6/12/2001
 US	6,248,415	Method and Apparatus for Culling Polygons	
 US	6,238,413	Method and System for a RISC Graphics Pipeline Optimize for High Clock Speeds by Using Recirculation	5/22/2001
us	6,075,546	A Packetized Command Interface to a Graphics Processor	6/13/2000
 us	6,230,177	Method and Apparatus for Performing Fast Fourier	5/8/2001
us	6,252,610	Transforms Method and Apparatus for Efficiently Switching State in a	6/26/200
 US		Graphics Pipeline	of 10/3/2000
US	6,128,638	Y Aside Independent Antiqueing	10/17/200
 US	6,133,901	- I Imper Command Mark	7/18/200
 U\$	6,091,425	Address Translation	3/20/200
 US	6,205,531	- Line of the Computation Computations	7/3/200
	6,256,656	Precision of a Computer System Having a Modular Anthmetic Processing Unit	
US	6,229,54	- Deadaine Muy Dianat	5/8/200

			Title	Issue Date
	Country	Patent No.	Volumetric Three-Dimensional Fog Rendering Technique	7/31/2001
		6,268,861	Administration of Lorenza Annual Annu	
1	US		Method and Apparatus for Radiometrically Accurate Texture-	12/19/2000
		6,163,320	Method and Apparatus for Radionization	
	us		Based Lightpoint Tendering Technique	



	Country	Application No.	, ido	11/20/1998
	US	196100	Pen-Based Interface for a Noteped Computer	11/20/1998
olet Computing	us	196114	"Pen-Based Computer System"	11/20/1850
	03		System and Method for the Direct Randaring of Curve	1/9/1998
	us	09/005129	Bounded Objects	1/8/1300
aphics Rendering	-		Floating Point Gamma Correction Method And System	11/12/1998
	us	191458	Floating Point Gamina Correction Wester, 100 Systems	
			High Precision Texture Wrapping Method And Device	12/21/1998
	us	09/217398		
			Method And Device For Associating A Pixel With One Of	
		265487	A Plurality Of Regions in A Logarism Of Cosma Space	3/9/1999
	US	200401	Method and System For Providing Texture Using A	S/5/400P
	us	072050	Selected Portion of a Texture Map	5/5/1998
	Uð	0,000	Improved Chroma-Key Suppression Method and	3/3/1998
	us	033663	Apparatus	331330
			To the in a Heillard Mamory Architecture	2/3/1999
	บร	09/244275	Memory Chip For Use in a Unified Memory Architecture	
	+		Memory Controller for Controlling Memory in a Computer	
			System Having a Unified Memory Architecture	2/3/1999
	US	244281	WO Chip in a Computer System Having a Unified	
		044854	Moment Architecture	2/3/1999
	US	244254	System and Method for Morphing Based on Multiple	
		220078	Molented Parameters	12/23/1998
	US	220072	A Method and System for Efficiently Evaluating and	4/25/1997
	บร	845526	Demains Nurths Surfaces for 3D Graphics	
			System and Method for Displaying Different Portions of	7/23/1997
	us	899123	an Object in Different LOD Levels System and Method for Displaying Different Portions of	
			an Object in Different Levels of Detail	5/1/1998
	US	070808	Occlusion Culling For Complex Transparent Scenes in	
			Computer Generated Graphics	5/6/1998
	US	074027	Sustant and Sustant for Performing Rasterization in	
			A Then Cimensional (SCADNICE USINI TOV	. 1
			Color Space and Combining Same with Digital Video	ชา 8/20/1998
1	us	137005	YLIV Color Space	3/5/1998
	us	035376	Subsampled Texture Edge Antialiasing	3/3/1330
			Method and Apparatus for Providing Image and	
			Graphics Processing Using a Graphics Rendering	10/23/1997
į	us	956537	Engine Program Product for	_
			Method, System and Computer Program Product for Providing Illumination in Computer Graphics Shading	
			A-I	
	US	937793	Method for Efficient Handling of Texture Cache Miss	:83
		09/048099	and Boden dation	
_	US	navneonaa	Method and Apparatus for Line Antiallasing by Gain	ma- 5/19/1998
		09/081073	Corrected Area Calculation	
	US	248136	Contem and Method for Rendering an Image	2/8/1999
	us	248130	A Packetized Command Interface to a Graphics	11/23/199
	US	09/448907	December	11124 100
L			A Packetized Command Internace to a Graphics	4/13/200
[us	09/549158	Processor	
			Method and Apparatus For Rasterizing in a Hierard	9/2/1994
	us	09/145516		
			Range Correct Layered Fog Model Using 3D Texts	ırə 11/26/19
	us_	978755	Backface Primitives Culling	7/6/199
	US	111284	Multi-Threaded Texture Modulation for Axis Aligne	nd
			halama Dondaring	12/1/199
	i A			
	US	201814	Multisample Dither Method With Exact Reconstru	ction 2/10/19



Country		Method and Apparatus For Synchronizing Graphics	44044.000
١ ا			1/8/1999
US	09/227227	Pipelines	
us	218121	Scaleable Network Based Computer Graphics System	12/21/1998
		Computer System Having A Distributed Teams Marchitecture	7/1/1989
		Method and Apparatus for Radiometrically Accurate Taylure-Based Lightpoint Rendering Technique	11/6/2000
US		Antializing Method Using Barycentric Coordinates	7/1/1999
us	348882	System and Method For Transitioning Between Two	
	A9/220505	Filters, Allowing For The Use of Higher Order	12/28/1998
US		Method, System, and Computer Program Product For Compositing True Colors and Intensity-Mapped Colors	10/12/1999
ŲS	09/416055	System and Method For Locking Disparate Video	12/22/1998
us	218042	Formats Notation Ser Interfection to Littra-High Resolution Output	
us	09/247885	Covices	2/10/1999
	232860	Method For Tilting Multiple Displays to General State Area Display of Moving Data	1/15/1999
		Combined Floating-Point Logic Core and Frame Buffer	4/19/1999
us		Apparatus and Method for Sharing Antiallasing Method	4/19/1999
US	09/294450		
		Correction Geometry for any Design Eyepout, Displies	3/26/1999
US	277567	Surface Geometry and Projector Position	3/23/1999
US	385270	Antialiasing Metrico to Competer Transformations and Lighting	
us	09/220156	Calculations	12/23/1998
us	263185	System and Method for Maintaining Time Dependence in Conversions That Include Parallel Operations	
	09/467561	A Method and System for Elifcentry Implication Strains Sided Vertex Lighting in Hardware	12/20/1999
		Method and Apparatus for Texture Memory Manager	ment 3/24/1999
US		Method and Apparatus for Early Chang of Occuden	2/9/1999
US	09/247816	Method and System for Generating Light Values for	7/1/1998
us	348641		
us	273247	Method and System for Dynamic Clock Frequency Adjustment for a Graphics Subsystem in a Computer	3/19/199
	306987	Fine Grain Multi-Pass for Multiple Texture Renderir	g 5/7/199
		Method and System for Dynamic Texture Replication a Distributed Memory Graphics Architecture	
US		Cache Memory For High Latency and Out-On-Order	7/1/199
US	345966	Method for Virtual Clipping A Three-Dimensional	6/8/19
us	328000	A Method and System For Efficient Simplification Tetrahedral Meshes Used in 3D Volumetric	of
	US US US US US US US US US US	US 346071 US 09/707418 US 348882 US 08/220596 US 09/416055 US 218042 US 09/247885 US 232860 US 232860 US 294546 US 09/294450 US 277567 US 385270 US 09/457561 US 09/467561 US 09/247816 US 348641 US 366967 US 344005	US 346071 Architecture Weltrod and Apparatus for Radiometrically Accurate Texture-Based Lightpoint Rendering Technique Antializating Mesthod Using Barycentric Coordinates Applied to Lines US 348882 Applied to Lines US 08/20596 Interpolation of The Use of Higher Order Interpolation Weltrod, System and Method For Transitioning Between Two Filters, Allowing For The Use of Higher Order Interpolation Method, System, and Computer Program Product For Compositing True Colors and Intensity—Mapped Colors Into A Frame Buffer US 08/416055 System and Method For Locking Disparsts Video Formats US 08/247885 Devices US 08/247885 Use 232860 Usera-High Resolution Output Devices US 08/247885 Usera and Method For Interfacing to Usera-High Resolution Output Method For Titting Multiple Displays to Generate a Large Area Display of Moving Data US 23860 Area Display of Moving Data US 294546 Combined Ploating-Point Logic Core and Frame Buffer Apparatus and Method for Sharing Antializating Momor Across Multiple Displays US 277557 Across Multiple Displays US 385270 Aradisating Method for Computer Graphics US 08/220196 Calculations US 08/220196 Calculations US 08/257551 Studed and System for Emisently Implementing To Stude Vertax Lighting in Hardware US 09/247816 Objects US 09/247816 Objects US 346641 Set of Vertices Method and System for Generating Light Velues for Set of Vertices Method and System for Generating Light Velues for Set of Vertices US 346987 Fine Grain Multi-Pass for Multiple Taxture Rendering Texture Memory Graphics Architecture US 346987 Fine Grain Multi-Pass for Multiple Taxture Rendering To Set of Vertices US 345986 Return of Texture Data Method and System for Dynamic Clock Frequency Adjustment for a Graphics Architecture Performance of Texture Data Method and System for Dynamic Clock Frequency Adjustment for a Graphics Architecture Performance of Texture Data Method and System for Dynamic Texture Replication Substituted Memory Graphics Architecture Performance of Texture Data Method for V



	Country	Application No.	Title	lling Date
	· Jumin's		no and the	1
			Method, System and Computer Program Product for	8/20/1999
	us	09/377778	With Frank Brilling Manney 1100 dr. Files and Comment of the Comme	G/20/1000
	-		Method and Apparatus for a Modified Linear Filter Using	8/8/1999
	US	328164	Texture Data as Phase Angle	
			View-Dependent Layer Ordering Method and System	5/3/1999
	US	303994	Method and System for Iterative Morphing	4/28/1999
	US	300916	Apparatus and Method for Increasing the Bandwidth to a	
		-	Genhics Subsystem	4/19/1999
	US	293869	Device Method and System for Generating Per-Pixel	
	ue.	265493	Light Values Using Texture Paremeters	3/9/1999
	us	ELLAND	Mothed System and Computer Program Product for	
•			Efficient Buffer Level Management of Memory-Buffered	8/31/1999
•	us	386379	Graphics Data	0/3 1/ 1552
			Mathod, System and Computer Program Product for	
			Overlapping Graphics Data Collection and Transmission	8/31/1999
	us	386378	Using a Single Processor	001111
			Method, System and Computer Program Product for Modified Blending Between Clip-Map Tiles	12/23/1998
	US	220082	Modified Blending between Clip*Hap Tito	8/6/1999
	US	09/369359	Reflection Space image Based Rendering Texture Generating Apparatus For Dynamic Interference	
				11/30/2000
	US	09/727985	Checking Method and System for Evaluating Derivatives in Screen	
			Space Using Perspective Corrected Barycentric	
			Coordinates	9/29/2000
	US	09/675979	Method and System for Transforming Color Coordinates	
		363636	In Direct Calculation	7/30/1999
	us	303030	Cheap, Well-Behaved Affine Transformation of	4100 0000
	us	09/576740	Reunding Soheres	5/23/2000
	- 03	0.0010110	Dual Mode Device and Method for Generating Vector	7/1/1999
	us	348885	Cross Products or DOT Products	77171338
			System and Method for Load Balancing in a Multi-	9/30/1999
	us	408951	Channel Graphics System	
			Method, System, and Computer Program Product for Using Alpha Values to Control Pixel Blending	9/24/1999
	US	09/404808	Using Alpha Values to Control (125)	
			Method, System, and Computer Program Product for	Į.
		20164045	Concentral Soutically Valving Energy in a Digital Integral	12/15/1999
	US	09/461345	Method and Apparatus for Rendering a Quadrangle	1
		ġ9/ 5 85 5 62	Primitive	5/4/2000
	US	03/303302	Pertycing Fill and Improving Quality of Interlaced	8/6/2001
	116	60/295854	Displays Using Multi-Sampling	
	us	09/832138	Coops Depresentation Method and System	4/10/2001
		03/902.00	Method and System for Implementing Graphics Contri	5/12/2004
	us	09/569649	Constructs	5/12/200
	US	09/569650	Table Indexing System and Method	
		09/569521	Method and System for Accelerating Noise	5/12/200
	US	09/569520	Data Retrieval Method and System	5/12/200
	US	09/569654	Friended Range Pixel Display Method and System	5/12/200
	US	U8/305634	Notice Computer Program Product for	l
			Implementing Derivative Operators with Graphics	6/29/200
	116	09/606968	le 4	01251200
	US	V9-000300	Method and System for Executing SIMD instruction	8/15/200
	us	09/638907	Lucia a Complice Technology	
			Co-soller PMC/IIM Fruulka 19	i \
1		1	Method, System, and Computer in System a Digital Simulating Camera Depth-of-Field Effects in a Digital	5/17/20
	us	09/572452	11—222	
			An Efficient Graphics Pipeline With a Pixel Cache at Data Pre-Fetching	12/22/19
	1	1	In . A. Des CAMBING	



	D-vet-	Application No.		iling Date
	Country	A	System and Method for Linearly Mapping a Tiled	12/22/1999
	us	00/470948	mage Buffer	12/27/1999
	US	09/473209	Granhics Geometry Cache	12/27/1999
	US	09/473210		
	30	- 1	Method, System, and A Computer Program Product For Hittering A Texture Applied To A Surface Of A Computer Generated Object	10/10/2000
	US	UZIGO 10	Method and System for Performing Multi-Texturing	6/21/2000
	US		Operations Using Records System and Method for Efficiently Controlling a Graphics Randering Pipeline	10/17/2000
	us	09/688978	the stand System and Computer Program Product for	
	US	60/255883	Determining Regions That Are Occluded From An Observation Point Method, System, and Computer Program Product for	12/18/2000
	us	09/684812	A state of a Estation and Applications I mateur	10/10/2000
		60/253948	System, Method, and Computer Program Product For General Environment Mapping	11/30/2000
	us	60/258323	Hertugge-Accelerated Volume Lighting Algorithm	12/28/2000
	US		Rendering Volumetric Fog and Other Gaseous	11/21/2000
	US	60/252094	Phenamena Texture Tiling With Adjacency Information	10/6/2000
	US	60/238128	A Volumetric Based Method and System for Visualizing	6/18/2001
	US	60/298416	Rendering Volumetric Fog and Other Gaseous	11/21/2000
	us	60/252092	Method, System, and Computer Program Product to Rendering Multicolored Layered Fog with Self-	11/21/2000
	us	60/252093	Shadowing and Scene Shedowing General Purpose Web Annotations Without Modifying	7/19/1999
Internet	US	357529	Browser Graphical Method and System for Accessing Information on a Communications Network	4/25/2000
	us	09/557149	System and Method for Media Stream Indexing and	10/7/1999
Digital Media	us	09/415037	Synchronization Workstation for Processing and Producing a Video	8/4/2000
	us	09/632558	Signal	8/4/2000
	us	09/632662	System and Method for Pre-Processing a Video Signal System and Method for Producing a Video Signal	8/4/2000
	US	09/632452	System and Method for Packing and Unpacking Vide	B/4/2000
	us	09/832451	Data Synchronizing Motion and Time-Based Data for Trans	
	us	08/900421	Seemless Payback of Multiple Clips of Media Data	11/18/1998
	US	09/441729	Across a Data Network Frame-Accurate Transport of Media Data Across a I	
	US	09/441722	Network New Ja Physics	2/6/1998
	us	09/020072		3/5/1998
US US	US	035687	Preemptive Time Multiplexed Shared Memory Acce Video Assistance System with Computer Generals	
	us	09/427197	Imagery Overlay	1
	09/09974	System and Method Using a Packetized Encoded Bitstream for Parallel Compression and Decompre A Method and System for Efficiently Streaming 3D	esion 6/18/199	
	us	09/51930		
	us	09/46638	Constant Bitrata Algorithm for Block	a in a
-	us	09/53936		3/31/20



			Tale.	Filing Date
	Country	Application No.	Title	
	Couriny		Cost-Optimal Convolution Algorithm With Low or Null	5/23/2000
	us	09/577171	Latency	
1	U8	-	A Technique For Controlling Media Data Streams Using	4/6/2000
	110	09/544360	Constroits	
	US	000000	Apparatus and Method for Recognizing Color Space of s	3/8/2000
	6	09/521234	Diattel Video Input	7/28/2000
	US	09/628796	System and Method for Compressing Data	
	US	08/020/40	System and Method for Storing Compressed Data onto a	7/28/2000
		09/628658	lai Stadium	112000
	US	03020000	Method and Apparatus for Producing Digital Video Iron	1
		60/281105_	a General Digital Graphics Interface	
. 1	US	60/2011.00	· ·	



Schedule A - Foreign Patents and Applications

		Title	Foreign Filing Date	Insue Date	Status
ountry	Appl/Patent No.				
		Method, System And Computer Program Product For Providing Illumination in Computer Graphics Shading And	1	1	
1	1		9/25/1998		Abandoned
EPO_	98949509.8	Animation Method, System And Computer Program Product For		ł	1
		Providing Illumination In Computer Graphics Shading And		ì	Pending
		Animation	9/25/1998		Pending
Japan	2000-513245	Assembled System And Computer Program Product For			j
		Providing Illumination in Computer Graphics Shading And			Pending
	US98/20096	Animation	9/25/1998		
PCT	03500	Method And Apparetus For Rastertzing in A Hierarchical Tile	5/17/2000		Pending
France	99942475.7		31772000		
FIBILE		Method And Apparatus For Restertzing in A Hierarchical Tile	8/2/2000		Pending
Japan	2000-568059	Destar	00200		
Japan		Method And Apparatus For Resterizing in A Hierarchical Tile	8/23/1999	İ	Pending
PCT	US99/18353	Codes	+		
		Method And Apparatus For Rasterizing in A Hierarchical Tile	5/17/2000		Pending
UK	99942475.7	Order			
		Lo For Remarking Graphics Finelines	7/11/2001		Pending
EPO	903207.9	Method And Apparatus For Synchronizing Graphics Pipelines			
		Method And Apparatus For Synchronizing Graphics Pipelines	7/9/2001		Pending
Japan		Method And Apparatus For Synchronically Graphine			ma
		Method And Apparetus For Synchronizing Graphics Pipelines	1/7/2000		Pending
PCT	US00/00548 .	Combined Floating-Point Logic Core And Frame Buffer	4/19/2000		Pending
PCT	US00/10634	Combined Floating-Point Lugic Cure 7412			Buerton
		Method And Apparatus For Texture Memory Management	3/24/2000		Pending
PCT	US00/107904	Apparatus And Method For Increasing The Bandwidth To A			Pending
		amakina Sidmatom			- Felding
PCT	US00/10979	Device, Method And System For Generating Per-Pixel Light		1	Ahandoned
	UCOCOCCARA	Vehice Using Texture Paremeters	3/8/2000		7.00
PCT	US00/08184	And Committee Program Program Program	_ }		
		Overlapping Graphics Data Collection And Transmission		1	Pending
	US00/40788	Licina A Single Processor	8/31/2000		
PCT	0300740750	Martinet System And Computer Program Product For	12/17/1999		Pending
PCT	US99/29984	Modified Blending Between Clip-Map Tiles	(217/1990	_	
PGI			8/4/2000	ŀ	Abandoned
PCT	US00/21361	Workstellion For Processing And Producing A Video Signal	0.42.000		
			8/4/2000		Abandoned
PCT	US00/21382	System And Method For Pre-Processing A Video Signal	8/4/2000		Abandoned
PCT	US00/2138	System And Method For Producing A Video Signal	37,550		
			ata 8/4/2000	1	Abandoned
PCT	US00/2138	System And Method For Packing And Unpacking Video D.	3/2/1999		Pending
EPO	99909763.	Presentative Time Multiplexed Shared Memory Access	3/2/1999		Pending
	2000-53494	2 Preservative Time Multiplexed Shered Memory Access	3/2/1999		Pending
Japan	US99/0481	5 Presmotive Time Multiplexed Shered Memory Access			Pending
PCT	0300,040.	Same And Marked For Compressing Dals	7/28/200		
PCT		System And Method For Storing Compressed Data Onto	A 7/27/200	1	Pending
500		Storage Medium	1/2/1200	10/15/19	91 Granted
PCT	1290870	Pixel Mapping Apparatus For Color Graphics		11/27/19	
Canad	DC47201	Pixel Magging Apparetus For Color Graphics		6/3/199	Constant
Germei	500	Pixel Mapping Apperatus For Color Graphics		4/16/19	C-retard
Hong Ko		A Section For Color Graphics			
Japar		The Assemble For Color Graphics		12/28/10	Samuel
Singap		The Amender For Color Graphics		5/29/19	9-04-
UK	219831	Pixel Mapping Appareus For Color		5/27/19	94 Granter
India	17292	Dual Clock Shift Register			one Grente
		Method For Updating Pipelined Single Port Z-Buffer By		5/29/18	STATION COLUMN
EPC	48337	Segments On A Scan Line Method For Updating Pipelined Single Port Z-Buffer By			one Grante
		a		5/29/1	190 313116
Fran	43337	Segments On A Scan Line Method For Updating Pipelined Single Port Z-Buffer By			oge Grante
		Method For Updating Pipulied Strips Segments On A Scan Line	1	5/29/1	000



Schedule A - Foreign Patents and Applications



		Title	Foreign Filing Date	Issue Date	Status
Country	Appl/Patent No.	Method For Updating Pipelined Single Port Z-Buffer By			Granted
Japan		Segments On A Scan Line		2/12/1999	Granuso
	2884250	Method For Updating Pipelined Single Port Z-Buffer By		40141007	Granted
	191820	Someote On A Scan Line		12/4/1997	0.0.00
Korea	131020	Method For Updating Pipelined Single Port Z-Buffer By		5/29/1998	Granted
	433373	Segments On A Scan Line			Granted
Switzerland_	1276312	Unterleaved Pineline Parallel Processing Architecture		11/13/1990	5.6100
Canada	12/03/12	As Angership And Method For Integrating Texture Memory		1	Pending
	95912783.8	And intercolation Logic in A Computer System	3/7/1995		
EP0	99812142.0	An Apperatus And Method For integrating Texture Memory	3/7/1995		Abandoned
PCT	US95/02853	And intermolation Locic in A Computer System	3//1885		
PC1	-	An Amaratus And Method For Integrating Texture Memory	3/7/1995	1	
10	9510309	And Interpolation Logic In A Computer System	3//1800		
JP		Apparatus And Method For Selectively Storing Depth	8/15/1995		Abandoned
EPÔ	98926193	Information Of A 3-D Image	0101350		
	-	Apparatus And Method For Selectively Storing Depth	8/15/1995		Abendoned
PCT	US98/13245	Lefamation Of A 3-D IMBG9	1000		
FUI	+	A Method And Apparatus For Providing Texture Using A	11/6/1996	Ì	Abandoned
EPO	96939541.7	Selected Portlan Of A Texture Mip-Map	11101000		
		A Method And Apparatus For Providing Texture Using A	11/8/1996		Abandoned
PCT	US96/17873	Selected Portion Of A Texture Mip-Map	7.0		
		System And Method For Color Space Conversion Using An	3/28/1997		Abandoned
EPO	97917591.6	Extended Color Space			
		System And Method For Color Space Conversion Using An	3/28/1997		Abandoned
PCT	US97/04891	Extended Color Space			
		Unified Memory Computer Architecture With Dynamic	9/9/1997		Pending
Canada	2214858	Graphics Memory Affocation			Ddl
		Unified Memory Computer Architecture With Dynamic	9/5/1997		Pending
EPO	97308897.6	Graphics Memory Allocation Unified Memory Computer Architecture With Dynamic			Deadles
		Unified Memory Computer Arts Receipts	9/16/1997		Pending
Japan	251134.97	Graphics Memory Allocation Unified Memory Computer Architecture With Dynamic			Pending
		Unified Memory Computer Allocation	8/26/1997		Penoing
Mexico	976495	Graphics Memory Allocation			Abandoned
		Method And Apparetus For Virtual Address Translation	7/1/1999		ABBRICERIO
PCT	US99/1507	Metroc And Apparatos / G			Abondanod
		2 System and Mathod for Combining Multiple Video Streams	8/26/1999		Abendoned
PCT	US99/1950	2 System and waters for Carry	1	1	Abandoned
		Digital Filtering for Lenticular Printing	8/18/1992		ABBIIDORO
PCT	US96/894	5 Digital Philately for ac-			Abandone
		Digital Filtering for Lenticular Printing	8/18/1992		7.001.201.20
AU	9225485			l l	Abandone
		Method and Apparatus for Clearing a Region of Z-Buffer	9/12/1989		+
PCT	US69/392		A 14 D 14 C 2 C	2/7/1996	Abandone
		Method and Apparetus for Clearing a Region of Z-Buffer	9/12/1989	2//1990	-
EP	551251		0400000	3/21/1996	Abandone
	**********	Method and Apparatus for Clearing a Region of Z-Buffer	9/12/1986		
DE	6892565		published		Abandon
		Graphics Processor with Staggered Memory Timing	3/22/1991		1
PCT	WO90/02	Method and Apparatus for Producing a Visually Improved	published	1	Abandon
		and Image in a Committee System			- -
PCT	W081/12	Method and Apparatus for Producing a Visually Improved	publishe	1	Abendon
		image is a Computer System		'	
AU	917313	Computer System Having A Distributed Texture Memory	014 0 1000	n	Pendin
	US00/16	1 a . 6 Mar 6. 1 mar.	8/18/200	<u> </u>	